

<b>Notice of Allowability</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/588,928	MURASE, TETSUYA	
	<b>Examiner</b>	<b>Art Unit</b>	
	JASON S. UHLENHAKE	2853	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 8/9/2006.
2. ☒ The allowed claim(s) is/are 1-2.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |  |
|--|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                | 5. <input type="checkbox"/> Notice of Informal Patent Application                      |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 6. <input type="checkbox"/> Interview Summary (PTO-413),<br>Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br>Paper No./Mail Date _____    | 7. <input type="checkbox"/> Examiner's Amendment/Comment                               |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br>of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance   |
|  | 9. <input type="checkbox"/> Other _____.   |

/Julian D. Huffman/  
 Primary Examiner, Art Unit 2853

**DETAILED ACTION****Reasons for Allowance**

The primary reason for the allowance of claims 1-2 is the inclusion of the limitation of when the sheet is conveyed in a specific direction a predetermined feeding distance ( $L_x$ ) during the conveying operation for each path, the control means permits the conveying means to first convey the sheet a predetermined distance ( $L_1$ ) in the specific direction (+X direction), then to convey the sheet a direction (-X), the opposite of the specific direction (+X), a distance ( $L$ :  $L = L_1 + \Delta L_1$ ) that is obtained by adding a short distance ( $\Delta L_1$ ) to the predetermined distance ( $L_1$ ), and to further convey the sheet in the specific direction (+X) a distance ( $L_x + \Delta L_1$ ). It is this limitation found in each of the claims, as it is claimed in the combination, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The prior art made of record and not relied on is considered pertinent to applicants disclosure. Saito et al (U.S. Pub. 2002/0140800) discloses a conveying means feeding the sheet in forward and reverse directions (Figures 14-15; Paragraphs 0046-0050), however Saito fails to disclose a control means permitting the conveying means to first convey the sheet a predetermined distance ( $L_1$ ) in the specific direction (+X direction), then to convey the sheet a direction (-X), the opposite of the specific direction (+X), a distance ( $L$ :  $L = L_1 + \Delta L_1$ ) that is obtained by adding a short distance ( $\Delta L_1$ ) to the predetermined distance ( $L_1$ ), and to further convey the sheet in the specific direction (+X) a distance ( $L_x + \Delta L_1$ ). Levinson (U.S. Pat. 4,269,522) discloses a bi-

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directional feed apparatus, however Levinson does not disclose a controlling means permits the conveying means to first convey the sheet a predetermined distance ( $L_1$ ) in the specific direction (+X direction), then to convey the sheet a direction (-X), the opposite of the specific direction (+X), a distance ( $L$ :  $L = L_1 + \Delta L_1$ ) that is obtained by adding a short distance ( $\Delta L_1$ ) to the predetermined distance ( $L_1$ ), and to further convey the sheet in the specific direction (+X) a distance ( $L_x + \Delta L_1$ ).

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON S. UHLENHAKKE whose telephone number is (571)272-5916. The examiner can normally be reached on Monday-Friday 8:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Meier can be reached on (571) 272-2149. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JASON S UHLENHAKE/  
Examiner, Art Unit 2853  
March 1, 2008

/Julian D. Huffman/  
Primary Examiner, Art Unit 2853